

**Abstract**

The present invention relates to an active reflector (10) for use in indoor wireless data communication systems comprising receiving means (11) for receiving signals from a  
5 first mobile terminal (13) and transmitting means (12) for transmitting the received signals to a second mobile terminal (14) in an omni-directional way, so that a direct communication with high data rates between mobile terminals in an indoor environment is enabled, whereby the active reflector is adapted to be mounted above the mobile terminals in the indoor environment to ensure essentially a line of sight connection  
10 between the active reflector and each mobile terminal. No cost-intensive baseband processing and/or broadband cabling infrastructure is necessary, so that a simple and cost-effective indoor communication is enabled.

(Fig. 1)